

A. Identification and Coding Information

1. Project Number Agency Number Update Code
 033807 W-172.05 Change

2. Date: October 1, 2008
 Revised: January 21, 2009

3. Project Name: Patuxent WFP Phase II Expansion

4. Program: Sanitation 6. Planning Area: Bi-County

5. Agency: WSSC

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	4,590	2,186	500	1,904	700	745	459				
Land											
Site Improvements & Utilities											
Construction	24,530			24,530		15,096	9,434				
Other	2,693		50	2,643	70	1,584	989				
Total	31,813	2,186	550	29,077	770	17,425	10,882				

C. Funding Schedule (000's)

WSSC Bonds	31,813	2,186	550	29,077	770	17,425	10,882				
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D. Description & Justification

DESCRIPTION

This project provides for the addition of a sixth treatment train, a new electrical substation, upgrades to existing yard piping, upgrades to chemical facilities and new UV disinfection facilities to the Patuxent WFP, along with an upgrade to the existing potassium permanganate feed system at the Patuxent Pretreatment Facility and upgrades to the existing sewer system at Sweitzer Lane to handle residuals from the plant.

Service Area Bi-County Area **Capacity** 72 MGD nominal/110 MGD emergency

JUSTIFICATION

Plans & Studies
 Patuxent WFP Facility Plan (April, 1997); In-House Study (April, 2002); Patuxent Expansion Design Criteria Report (April 2005)

Specific Data
 Phase II will add a sixth treatment train consisting of a three stage flocculation chamber, sedimentation basin with chain and flight solids removal and plate settlers, disinfectant contact chamber, and two deep bed granular carbon filters. A fourth raw water pipeline from Rocky Gorge Raw Water Pipeline (W-172.07) and the modification and expansion of the Rocky Gorge Water Pumping Station (W-172.08) will provide a firm raw water pumping/transmission capacity of 110 MGD. These improvements will give the plant a firm nominal capacity of 72 MGD, with emergency capacity of 110 MGD. New UV disinfection facilities are being added to the plant in order to comply with upcoming EPA regulations for Cryptosporidium treatment and Stage 2 Disinfection Byproducts Rule.

Cost Change
 Costs were increased as a result of additional design work required and escalation in labor costs due to project delay.

STATUS Preliminary Design (WSSC Contract No. BF1582H91,).

OTHER
 The project scope has remained the same. Expenditure estimates shown above are preliminary design estimates and may change as the detailed design progresses. In the event of an outage at the Potomac WFP, additional capacity at the Patuxent WFP will reduce customer impact. However, emergency conservation measures will still be required. WSSC will seek federal funding for this project.

COORDINATION
 Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Baltimore Gas & Electric and WSSC Projects W-172.07, Patuxent Raw Water Pipeline, W-172.08, Rocky Gorge Pump Station Upgrade and W-73.18, Power Reliability and Arc Flash Studies(Coordination of UV Criteria).

NOTE This project supports 28% System Improvement and 72% Environmental Regulation.

E. Annual Operating Budget Impact (000's)

	FY of Impact
Program Costs	
Staff
Other
Facility Costs	
Maintenance
Debt Service	2774 13
Total Costs.....	2774 13
Impact on Water or Sewer Rate.....	5¢ 13

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 04
Date First Approved	FY 03
Initial Cost Estimate	33,002
Cost Estimate Last FY	30,121
Present Cost Estimate	31,813
Approved Request, Last FY	13,475
Total Expenditures & Encumbrances	2,186
Approval Request FY 10	770
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: No land or R/W required
 % Project Completion: D-60%
 Est. Completion Date: FY 2012

H. Map Map Reference Code:

MAP NOT AVAILABLE

9-154